

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A connector ~~including~~ comprising:

a header ~~comprising~~ having a header body formed of an insulation material, and ~~plural pairs of a plurality of~~ header posts held on both side walls of the header body, the header body having header reinforcing metal fittings which are not electrically connected to the header posts, and a cross-section of fixed portions of the header reinforcing metal fittings, when viewed in a longitudinal direction of the socket, being substantially the same as a cross-section of a terminal end of the header posts; and

a socket ~~comprising~~ having a socket body formed ~~[[on]]~~ of an insulation material and having a plug groove configured to engage the header, with which the header is engaged, and plural pairs the socket having a plurality of socket contacts held on both side walls of the plug groove ~~of the socket body, the socket contacts being configured to contact and contacted with the header posts when the header is engaged with~~ engages the plug groove, the socket body having ~~[[;]]~~ ~~characterized by that~~

~~the socket body is reinforced by~~ a pair of socket reinforcing metal fittings integrally inserted into both end portions thereof in longitudinal of the socket body and

extending in a width-wise direction of the socket, wherein the socket reinforcing metal fittings reinforce the socket body,[[;]]

[[a]] the pair of the socket reinforcing metal fittings is formed to protrude outward protruding outwardly from both side walls of the plug groove in longitudinal the width-wise direction of the socket, and have each of the socket reinforcing metal fittings having a pair of fixed portions configured to be soldered on lands of a circuit board and a coupling portion connecting between coupler which connects the fixed portions, the socket reinforcing metal fittings [[and]] being embedded into in an end portion of the socket body in the longitudinal and extending in the width-wise direction of the socket body respectively.

2. (Canceled).

3. (Currently Amended) The connector in accordance with claim 1 ~~characterized by that~~ the header post comprising a protrusion and a concavity are serially successively provided on the second a contact portion of the header post along heightwise extending in a height-wise direction of the header from a first face configured to configured to contact a bottom surface of the plug groove to a second face opposite to the first face.

4. (Currently Amended) The connector in accordance with claim 3 ~~characterized by that~~ wherein the protrusion is formed at a position positioned in a height-wise direction of the header post a little neared to closer to the first face from center in than to the second face heightwise direction of the header post.

5. (Currently Amended) The connector in accordance with claim 3, ~~characterized by that~~ the protrusion comprising a slanted face ~~is formed~~ provided on an outer face of the protrusion ~~in a manner so that a dimension of the protrusion at a portion nearer to a second face opposite to the first face becomes larger~~ becomes larger as the slanted face extends towards the second face in a height-wise direction of the header post.

6. (Currently Amended) The connector in accordance with claim 3 ~~characterized by that~~ wherein the concavity is ~~channel shape elongated along~~ comprises an elongated channel extending in the heightwise direction of the header post.

7. (Currently Amended) The connector in accordance with claim 6 ~~characterized by that~~ wherein the concavity has two slanted faces ~~depth of which becomes deeper for approaching to the center in the~~ oriented such that a cross-section of the concavity in widthwise direction so that the section in the widthwise direction of the header post ~~becomes~~ has a substantially V-shape cross-section.

8. (Currently Amended) The connector in accordance with claim 3 ~~characterized by that~~ a width wherein a dimension of the concavity in the widthwise width-wise direction of the header post is formed to be larger than a width dimension of the protrusion and smaller than a width ~~direction of the first~~ of a contact portion of the socket contact in the width-wise direction of the header post.

9. (Currently Amended) The connector in accordance with claim 3 ~~characterized by that~~ wherein dimensions and a position of the concavity in the ~~heightwise~~ height-wise direction of the header post ~~is established in a scope that~~ are configured to allow the ~~[[first]]~~ contact portion of the socket contact ~~slides on the second~~ to slide on the contact portion of the header post.

10. (Currently Amended) The connector in accordance with claim 2 ~~characterized by that~~ the header reinforcing metal fitting ~~is provided~~ comprising a protrusion and a concavity ~~serially~~ successively provided on a portion ~~corresponding to the second~~ contact portion of the header post ~~along heightwise~~ in a height-wise direction of the header reinforcing metal fitting and extending from a side of a face facing the socket toward a side of a face ~~mounted~~ configured to be mounted on a circuit board.

11. (Currently Amended) A ~~manufacturing~~ method of manufacturing a header of a connector ~~including, the method comprising:~~

~~a header comprising a header body formed of an insulation material, and plural pairs of header posts held on both side walls of the header body; and~~

~~—— a socket comprising a socket body formed on an insulation material and having a plug groove with which the header is engaged, and plural pairs of socket contacts held on both sides walls of the plug groove of the socket body and contacted with the header posts when the header is engaged with the plug groove; characterized by comprising:~~

~~—— the plural pairs of header posts are;~~

~~a process for punching metal plates to form forming conductive materials having substantially the same shape as the header post serially conductive terminals at a predetermined pitch, wherein at least some of the conductive terminals are configured to subsequently provide header posts of the header along two lines opposing with each other on band shaped metal plates by punching work;~~

~~a process for inserting a number of pairs of the conductive terminals larger by two than a number of pairs of the plural pairs of the header posts among the two lined conductive terminals formed on the metal plate inserting the conductive terminals into a die, wherein a number of pairs of conductive terminals inserted into the die are two greater than a number of pairs of the subsequently provided header posts;~~

~~a process for insert molding of insertion molding the header with an insulation resin so that two pairs of the ~~conductive terminals~~ conductive terminals positioned at both sides among opposing ends of the header the conductive terminals inserted into the die are embedded into the inside in the insulation resin at vicinities of both side portions of the opposing ends of the header body in longitudinal so as to extend in a width-wise direction of the header body; and~~

~~a process for cutting the conductive terminals unified with the header body by insert molding from the metal plate conductive terminals from the metal plates.~~

12. (Currently Amended) The manufacturing method of the connector in accordance with claim 11, ~~characterized by~~ further comprising:

~~a step that extracting a plurality of pairs of the conductive terminals plural pairs of the conductive terminals a number of which is larger than at least four than a number of~~

~~plural pairs of the header posts are extracted among the two lined conductive terminals formed on the metal plates, the number of the extracted plurality of conductive terminals being at least four greater than a number of pairs of the subsequently provided header posts, and [[rest]] conductive terminals except two pairs of conductive terminals disposed at both ends and the same number of pairs of the conductive terminals as the number of pairs the header posts disposed at center portion are removed by cutting [[off]] from the metal plates all the conductive terminals except those which subsequently provide the header posts and the pair of conductive terminals embedded at opposing ends of the header.~~

13. (Currently Amended) The ~~manufacturing method of the connector~~ in accordance with claim 11, ~~characterized by that~~ wherein the two pairs of the conductive terminals disposed at both ends and serving as opposing ends of the header provides the header body with header reinforcing metal fittings, and

a cross-section of fixed portions of the header reinforcing metal fittings, when viewed in a longitudinal direction of the socket, being substantially the same as a cross-section of a terminal end of the header post are cut to be substantially the same dimensions as a dimension of the header body in widthwise direction when the conductive terminals are cut off from the metal plates.

14. (Currently Amended) The ~~manufacturing method of the connector~~ in accordance with claim 13, wherein the header reinforcing metal fittings comprise ~~characterized by that~~ concave portions [[are]] formed in vicinities of both end portions of

at opposing ends of the header body in a side of a face configured to be mounted on a circuit board ~~in the insert molding~~.